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APPLICATION NO.	FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,117	03/3	1/2004	Erol Girt		3703
EROL GIRT	7590	08/07/2007		EXAM	IINER
2704 COLLEC		1		RICKMAN	, HOLLY C
BERKELEY,	CA 94/05			ART UNIT	PAPER NUMBER
·				1773	
				MAIL DATE	DELIVERY MODE
				08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PE			II
18	Application No.	Applicant(s)	· · · · ·
NG 14 2007 By Summary	10/813,117	GIRT ET AL.	
Soffice Action Summary	Examiner	Art Unit	
PRADERIASE.	Holly Rickman	1773	
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet	with the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 136(a). In no event, however, may will apply and will expire SIX (6) MO e, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this commandate of this	
tatus			
1) Responsive to communication(s) filed on 29 M	May 2007.		
<u> </u>	s action is non-final.		
3) Since this application is in condition for allowa		atters, prosecution as to the m	nerits is
closed in accordance with the practice under	·	*	
isposition of Claims			
4) Claim(s) <u>1-5,7,14,15,17,21,22,25 and 27-40</u> is	s/are pending in the appli	cation.	
4a) Of the above claim(s) is/are withdra			
5) Claim(s) <u>1,14-15,17,21,25,27-40</u> is/are allowe			
6) Claim(s) 2-5,7 and 22 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc		o by the Examiner.	
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	•	
Replacement drawing sheet(s) including the correct	tion is required if the drawir	ng(s) is objected to. See 37 CFR	1.121(d).
11) The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO	-152.
riority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		§ 119(a)-(d) or (f).	
1. Certified copies of the priority documen			
2. Certified copies of the priority documen			
3. Copies of the certified copies of the price	•	en received in this National St	age
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,	at received	
* See the attached detailed Office action for a list	or the certified copies no	or received.	
attachment(s)			
) X Notice of References Cited (PTO-892)) Notice of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice o	f Informal Patent Application	
Paper No(s)/Mail Date	6) Other: _	•	



DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/29/07 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. The rejection of claims 1, 5, 7, 14, 17, 21 and 25 under 35 U.S.C. 102(e) as being anticipated by Nolan (US 2004/0258963) is withdrawn in view of Applicant's amendments.
- 4. Claims 2-5, 7, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Nolan (US 7211340).

Nolan discloses a magnetic recording medium having a substrate formed from NiP-coated AlMg, a first crystalline layer, a second hcp crystalline layer, a third crystalline layer and

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a magnetic recording layer formed from a CoCr alloy. Each of the crystalline layers is non-magnetic. See col. 10, line 32 to col. 11, line 4. Nolan teaches the use of hcp materials such as Co for the first crystalline layer. It is the examiner's intention that the group of suitable materials disclosed for use as the first crystalline layer is small enough that one of ordinary skill in the art at the time of invention would have immediately envisaged an embodiment of the invention using hcp Co. See col. 13, lines 33-57.

5. Claim 22 is rejected under 35 U.S.C. 102(e) as being anticipated by Girt et al. (US 2004/0247943).

Girt discloses a magnetic recording medium having a substrate formed from NiP-coated AlMg, multiple underlayers including a first crystalline layer, a second hcp crystalline layer, a third crystalline layer and a magnetic recording layer. Each of the crystalline layers is non-magnetic. The reference teaches that the hcp layer contains minor amounts of a bcc-structured elements selected from the group including W, Mo, Ta, Nb, Cr, and V (see paragraph [0029]).

Claim Rejections - 35 USC § 103

6. The rejection of claims 2-4, 15, and 22 under 35 U.S.C. 103(a) as being unpatentable over Nolan (US 2004/0258963) is withdrawn.

Allowable Subject Matter

7. Claims 1, 14-15, 17, 21, 25, and 27-40 are allowable over the closest prior art to Nolan and Okuyama et al. (US 6682834). Nolan fails to teach or suggest the claimed multi-layered

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intermediary structure in combination with a magnetic layer having a Cr-rich and a Cr-dilute layer containing specific amounts of Cr.

Okuyama et al. teaches a magnetic recording medium having multiple underlayers and a magnetic recording layer having a "Cr-rich layer" and a "Cr-dilute layer." The reference teaches a single hcp interlayer that is disposed between the multiple underlayers and the magnetic recording layer. It would not have been obvious to modify Okuyama et al to include a "third intermediary layer. It would not have been obvious to arrive at the claimed invention in view of either Nolan or Okuyama et al.

8. y inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Holly Rickman Primary Examiner Art Unit 1773

Notice of References C	O P E 40 Ces Cited	Application/Control No.	Applicant(s)/Pa Reexamination GIRT ET AL.	
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*	****	Document Number Country Code-Number-Kind Code	MM-YYYY	Name	Classification
*	Α	US-6,682,834	01-2004	Okuyama et al.	428/832.2
*	В	US-7,211,340	05-2007	Nolan, Thomas Patrick	428/831.2
*	С	US-2004/0247943	12-2004	Girt et al.	428/694.00T
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.